

NILASAILA INSTITUTE OF SCIENCE & TECHNOLOGY SERGARH-756060, BALASORE (ODISHA) (Approved by AICTE& affiliated to SCTE&VT, Odishi,

LESSON PLAN

SUBJECT: Th-4 (ELEMENT OF MECHANIACL ENGINEERING)

CHAPTER WISE DISTRIBUTION OF PERIODS

SI.No.	Name of the chapter as per the Syllabus	No. of Periods as per the Syllabus
1	THERMODYNAICS	6
2	PROPERTIES OF STEAM	5
3	BOILERS	10
4	STEAM ENGINES	10
5	STEAM TURBINES	6
6	CONDENSER	4
7	I.C. ENGINE	4
8	HYDROSTATICS	5
9	HYDROKINETICS	5
10	HYDRAULIC DEVICES AND PNEUMATICS	5
11	TOTAL PERIOD	60

Discipline: ELECTRICAL& ELECTRONICNIC S ENGG	Semester: 3rd	Name of the Teaching Faculty: Er.BISHNU CHARAN JENA
	Class Day	Theory / Practical Topics
Week	Class Day	Theory / Practical Topics
1 st	1 st	THERMODYNAICS:
	2 nd	State Unit of Heat and work, 1st law of thermodynamics.
	3 rd	State Unit of Heat and work, 1st law of thermodynamics.
	4 th	State Laws of perfect gases
	5 th	Determine relationship of specific heat of gases at constant volume and constant nressure
	1 st	PROPERTIES OF STEAM
	2 nd	PROPERTIES OF STEAM:
2 nd	3 rd	Use steam table for solution of simple problem
_	4 th	Explain total heat of wet, dry and super heated steam
	5 th	Explain total heat of wet, dry and super heated steam
3 rd	1 st	BOILERS
_	2 nd	BOILERS
	3 rd	State types of Boilers
	4 th	Describe Cochran
	5 th	Babcock Wilcox boiler
4 th	1 st	Describe Mountings and accessories
	2 nd	Describe Mountings and accessories
	3 rd	CLASS TEST
	4 th	STEAM ENGINES:
	5 th	STEAM ENGINES:
5 th	1 st	Explain the principle of Simple steam engine
	2 nd	Explain the principle of Simple steam engine
	3 rd	Draw Indicator diagram
	4 th	Calculate Mean effective pressure
	5 th	IHP and BHP and mechanical efficiency.
6 th	1 st	Solve Simple problem.
	2 nd	Solve Simple problem.
	3 rd	STEAM TURBINES
	4 th	STEAM TURBINES
7 th	1 st	State Types
	2 nd	State Types
	3 rd	Differentiate between impulse and reaction Turbin
	4 th	Differentiate between impulse and reaction Turbin
	5 th	CLASS TEST
8 th	1 st	CONDENSER
	2 ^{na}	1 Explain the function of condenser
	3 ^{ra}	1 Explain the function of condenser
4L	4 th	State their types
9 th	1 st	State their types

	2 nd	I.C. ENGINE
	3 rd	I.C. ENGINE
	4 th	Explain working of two stroke and 4 stroke petrol and Diesel engines.
10 th	1 st	Explain working of two stroke and 4 stroke petrol and Diesel engines.
	2 nd	Differentiate between them
	3 rd	Differentiate between them
	4 th	HYDROSTATICS
	5 th	HYDROSTATICS
11 th	1 st	Describe properties of fluid
	2 nd	Describe properties of fluid
	3 rd	FLUID
	4 th	REVISION
	5 th	Determine pressure at a point, pressure measuring Instruments
12 th	1 st	Determine pressure at a point, pressure measuring Instruments
	2 nd	HYDROKINETICS:
	3 rd	HYDROKINETICS:
	4 th	Deduce equation of continuity of flow
13 th	1 st	Deduce equation of continuity of flow
	2 nd	Explain energy of flowing liquid
	3 rd	Explain energy of flowing liquid
	4 th	State and explain Bernoulli's theorem
14 th	1 st	State and explain Bernoulli's theorem
	2 nd	CLASS TEST
	3 rd	HYDRAULIC DEVICES AND PNEUMATICS:
	4 th	HYDRAULIC DEVICES AND PNEUMATICS:
	5 th	Intensifier
15 th	1 st	Intensifier
	2 nd	Hydraulic lift
	3 rd	Accumulator
	4 th	Accumulator
	5 th	Hydraulic ram



No. of periods actually needed
6
6
11
10
6
4
4
5
5
5
62